Sum pairs

Write a function that for a given a non-empty zero-indexed array A of N integers and some integer M counts all pairs of array elements that when summed give value M:

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object solution(a: Array[Int], m: Int): Int
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For example, given the following array:

A[0] = 2
A[1] = 7
A[2] = 1
A[3] = 3
A[4] = 2
A[5] = 4
A[6] = -3

and M = 4, all possible pairs are:

(2, 2), (1, 3), (7, -3)

Function should return 3, as explained above.

An array element can be parred only once and cannot be paired with itself. For example, for the following array:

A[0] = 2
A[1] = 2
A[2] = 2

and M = 4 there is only one possible pair:

(2, 2)

Function should return 1, as explained above.

Assume that:

- N is an integer within the range [1..100,000]
- M is an integer within the range [-2.000,000,000..2.000,000,000]
- each element of array A is an integer within the range [-1,000,000,000..1,000,000,000]

Complexity:

- expected worst-case time complexity is O(N)
- expected worst-case space complexity is O(N), beyond input storage (not counting the storage required for input arguments).

Elements of input array can be modified.